Surface Science 266 (1992) 545–551
North-Holland

surface science

Author index

Abe, T. and W.A. Soffa, Time evolution of composition profiles in alloys 266 (1992) 453
Abend, G., see Madenach 266 (1992) 56
Al-Kassab, T., A. Menand, S. Chambreland and P. Haasen, The early stages of decomposition of Al–Li alloys 266 (1992) 333
Alarco, J.A., see Hu 266 (1992) 538
Andrén, H.-O. and U. Rolander, Field dependence of hydrogen adsorption 266 (1992) 76
Andrén, H.-O., see Lundin 266 (1992) 397
Auger, P., see Danoix 266 (1992) 364
Auger, P., see Canoix 266 (1992) 409

Badan, V.E., see Vladimirov 266 (1992) 185
Bakhtizin, R.Z. and S.S. Ghots, Statistical model of semiconductor field emitter 266 (1992) 121
Bakker, J.W., see Van Tol 266 (1992) 214
Bakker, J.W., see Van Tol 266 (1992) 529
Barengolts, S.A., M.Yu. Kreindel and E.A. Litvinov, Nonequilibrium effects in high current field emission 266 (1992) 126
Barengolts, S.A., E.A. Litvinov and I.V. Uimanov, Nonequilibrium effects in field electron emission from superconductors 266 (1992) 132
Baró, A.M., see Méndez 266 (1992) 294
Bęben, J., see Biernat 266 (1992) 11
Beverini, G., see Cerezo 266 (1992) 481
Biernat, T., J. Bęben and R. Męclewski, Surface diffusion parameters for potassium and lithium on tungsten field emitter tip 266 (1992) 11
Blavette, D., The role of atom-probe techniques in the investigation of some selected matallurgical problems 266 (1992) 299
Blavette, D., see Danoix 266 (1992) 364
Block, J.H., see Drachsel 266 (1992) 40
Block, J.H., see Madenach 266 (1992) 56
Block, J.H., see Dirks 266 (1992) 62
Block, J.H., see Šotola 266 (1992) 70
Bostel, A., see Canoix 266 (1992) 409
Bouet, M., see Deconihout 266 (1992) 523
Brągiel, P., Surface reactions in an external electrostatic field 266 (1992) 35
Butenko, V.G., Yu.A. Vlasov, O.L. Golubev and V.N. Shrednik, Point sources of electrons and ions using microprotrusion on the top of a tip 266 (1992) 165

Camus, P.P., see Melmed 266 (1992) 513
Canoix, F., B. Deconihout, A. Bostel and P. Auger, Some new aspects on microstructural and morphological evolution of thermally aged duplex stainless steels 266 (1992) 409
Cerezo, A., see Hyde 266 (1992) 370
Cerezo, A., see Sha 266 (1992) 378
Cerezo, A., see Miller 266 (1992) 446

0039-6028/92/$03.50 © 1992 – Elsevier Science Publishers B.V. All rights reserved

Cerezo, A., see Hetherington 266 (1992) 463
Cerezo, A., M.G. Hetherington, J.M. Hyde, M.K. Miller, G.D.W. Smith and J.S. Underkoffler, Visualisation of three-dimensional microstructures 266 (1992) 471
Cerezo, A., J.M. Hyde, M.K. Miller, G. Beverini, R.P. Setna, P.J. Warren and G.D.W. Smith, New dimensions in atom-probe analysis 266 (1992) 481
Chambreland, S., see Al-Kassab 266 (1992) 333
Chang, L., see Sha 266 (1992) 416
Cheng, L., see Sha 266 (1992) 416
Chiba, A., see Hono 266 (1992) 358
Crompton, J.S., see Warren 266 (1992) 342
Cutler, P.H., see Park 266 (1992) 265

Danoix, F., P. Auger and D. Blavette, An atom-probe investigation of some correlated phase transformations in Cr, Ni, Mo containing supersaturated ferrites 266 (1992) 364
Deconihout, B., see Canoix 266 (1992) 409
Deconihout, B., A. Menand, M. Bouet and J.M. Sarrau, Performance of an energy compensated time-of-flight mass spectrometer 266 (1992) 523
Dirks, J., see Drachsel 266 (1992) 40
Dirks, J., W. Drachsel and J.H. Block, Electron stimulated field desorption of field adsorbed neon and helium from tungsten 266 (1992) 62
Drachsel, W., J. Dirks and J.H. Block, Simultaneous field desorption of ^{3}He and ^{4}He 266 (1992) 40
Drachsel, W., see Dirks 266 (1992) 62
Drachsel, W., see Šotola 266 (1992) 70
Drechsler, M., The thermal faceting of surfaces by low coverage adsorption 266 (1992) 1
Dülcks, Th., see Lüttgens 266 (1992) 197

Edmonds, D.V., see Khalid 266 (1992) 424
Eremchenko, D.V. and V.I. Makhov, Mechanisms responsible for instability of a field emission cathode surface morphology 266 (1992) 163

Forbes, R.G. and N.N. Ljepojevic, Liquid-metal ion source theory: electrohydrodynamics and emitter shape 266 (1992) 170
Forbes, R.G., see Ljepojevic 266 (1992) 176
Forbes, R.G., see Mair 266 (1992) 180
Friedl, A., O. Schütz and K. Müller, Self-diffusion on iridium (100). A structure investigation by field ion microscopy 266 (1992) 24
Fries, Th., see Schmidt 266 (1992) 249
Fujisawa, T., see Yamamoto 266 (1992) 289

Gaussmann, A. and N. Kruse, Field ion microscopy of the CO-induced structural changes of Pd and Pt single crystal planes 266 (1992) 46
Gaussmann, A., see Kruse 266 (1992) 51
Geber, G.P. and P. Haasen, High-resolution microscopy of the discontinuous precipitation 266 (1992) 328
Ghots, S.S., see Bakhtizin 266 (1992) 121
Goldstein, J.I., see Zhang 266 (1992) 433
Golubev, O.L., see Butenko 266 (1992) 165
Gong, Y.M., Surface self-diffusion studies on the W(112) plane by the field emission method 266 (1992) 30
Gorshkov, V.N., see Vladimirov 266 (1992) 185

Grovenor, C.R.M., see Warren 266 (1992) 342
Gründler, W., Time-dependent theory of charge transfer in the field ionization process at surfaces 266 (1992) 137

Haasen, P., see Geber 266 (1992) 328
Haasen, P., see Al-Kassab 266 (1992) 333
Hashizume, T., M. Taniguchi, K. Motai, H. Lu, K. Tanaka and T. Sakurai, Scanning tunneling microscopy of oxygen adsorption on the Ag(110) surface 266 (1992) 282
Hashizume, T., see Hono 266 (1992) 506
Hetherington, M.G., see Hyde 266 (1992) 370
Hetherington, M.G., see Miller 266 (1992) 446
Hetherington, M.G., A. Cerezo, J.M. Hyde and G.D.W. Smith, Structural analysis with the position sensitive atom probe 266 (1992) 463
Hetherington, M.G., see Cerezo 266 (1992) 471
Hiraga, K., see Hono 266 (1992) 385
Hondsmerk, F.A., see Van Tol 266 (1992) 214
Hondsmerk, F.A., see Van Tol 266 (1992) 529
Hono, K., N. Sano and T. Sakurai, Quantitative atom-probe analysis of some aluminum alloys 266 (1992) 350
Hono, K., H. Numakura, I.A. Szabó, A. Chiba and T. Sakurai, Determination of site preference of Cu and Ge in Ni_3Al 266 (1992) 358
Hono, K., K. Hiraga, Q. Wang, A. Inoue and T. Sakurai, Microstructures of $Fe_{73.5}Si_{13.5}B_9Nb_3Cu_1$ nanocrystalline soft magnetic material investigated by APFIM and HRTEM 266 (1992) 385
Hono, K., T. Hashizume and T. Sakurai, The IMR atom probe 266 (1992) 506
Hu, Q.-H. and J.A. Alarco, Electropolishing of polycrystalline $YBa_2Cu_3O_{7-\sigma}$ to meet the need for sharp needle geometry 266 (1992) 538
Hyde, J.M., A. Cerezo, M.G. Hetherington, M.K. Miller and G.D.W. Smith, Three-dimensional characterization and modelling of spinodally decomposed iron-chromium alloys 266 (1992) 370
Hyde, J.M., see Miller 266 (1992) 446
Hyde, J.M., see Hetherington 266 (1992) 463
Hyde, J.M., see Cerezo 266 (1992) 471
Hyde, J.M., see Cerezo 266 (1992) 481

Inoue, A., see Hono 266 (1992) 385
Isshiki, N., see Tsukada 266 (1992) 253
Ivanov, S.N., see Shkuratov 266 (1992) 224
Iwatsu, F., see Morikawa 266 (1992) 237
Iwatsu, F., see Terao 266 (1992) 244
Iwawaki, F., see Nishikawa 266 (1992) 204
Iwawaki, F., M. Tomitori and O. Nishikawa, STM study of Ge overlayers on Si(001) 266 (1992) 285

Jayaram, R. and M.K. Miller, An APFIM analysis of grain boundaries and precipitation in boron-doped NiAl 266 (1992) 310
Jayaram, R. and M.K. Miller, An APFIM/TEM study of crept model Ni–Mo–Ta–Al superalloys 266 (1992) 316
Jayaram, R., see Miller 266 (1992) 458
Jenkins, R., see Waugh 266 (1992) 501
Jiao, L., see Zhu 266 (1992) 337

Johnston, R. and A.J. Miller, Field emission from silicon emitters 266 (1992) 155
Jurczyszyn, L. and M. Stęślicka, Barrier-resonance states in an external electric field 266 (1992) 141

Kageshima, H., see Tsukada 266 (1992) 253
Kazes, E., see Park 266 (1992) 265
Kellogg, G.L., Surface diffusion of Pt adatoms on Ni surfaces 266 (1992) 18
Khalid, F.A. and D.V. Edmonds, An atom-probe FIM study of interphase precipitation in a model alloy steel 266 (1992) 424
Kinkus, T.J. and G.B. Olson, Microanalytical evaluation of a prototype stainless bearing steel 266 (1992) 391
Kobayashi, K., see Tsukada 266 (1992) 253
Kreindel, M.Yu., see Barengolts 266 (1992) 126
Kreuzer, H.J., see Madenach 266 (1992) 56
Kruse, N., see Gaussmann 266 (1992) 46
Kruse, N. and A. Gaussmann, Changes in the morphology of Rh field emitter tips due to the reaction with carbon monoxide 266 (1992) 51
Kurumizawa, T., see Yamamoto 266 (1992) 289
Kusao, K., see Yamamoto 266 (1992) 289

Leisch, M. and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517
Letokhov, V.S., see Moskovits 266 (1992) 81
Litvinov, E.A., see Barengolts 266 (1992) 126
Litvinov, E.A., see Barengolts 266 (1992) 132
Ljepojevic, N.N., see Forbes 266 (1992) 170
Ljepojevic, N.N. and R.G. Forbes, A comparison of the numerical and analytical treatments of a liquid-metal ion source 266 (1992) 176
Lu, H., see Hashizume 266 (1992) 282
Luna, M., see Méndez 266 (1992) 294
Lundin, L. and H.-O. Andrén, Atom-probe investigation of a creep resistant 12% chromium steel 266 (1992) 397
Lüttgens, U., Th. Dülcks and F.W. Röllgen, Field induced disintegration of glycerol solutions under vacuum and atmospheric pressure conditions studied by optical microscopy and mass spectrometry 266 (1992) 197

Madenach, R.P., G. Abend, M.S. Mousa, H.J. Kreuzer and J.H. Block, Influence of electrostatic fields on binding energy (NO on Rh) 266 (1992) 56
Mair, G.L.R. and R.G. Forbes, An analytical calculation of LMIS cusp length 266 (1992) 180
Makhov, V.I., see Eremchenko 266 (1992) 163
Matsushima, H., see Yamamoto 266 (1992) 322
Męclewski, R., see Biernat 266 (1992) 11
Melmed, A.J. and P.P. Camus, Philosophy and design of a composition mapping atom probe (COMAP) 266 (1992) 513
Menand, A., see Al-Kassab 266 (1992) 333
Menand, A., see Deconihout 266 (1992) 523
Méndez, J., M. Luna and A.M. Baró, Preparation of STM W tips and characterization by FEM, TEM and SEM 266 (1992) 294
Miller, A.J., see Johnston 266 (1992) 155
Miller, M.K. and K.F. Russell, Fractal analysis of field evaporation micrographs of Fe–Cr alloys 266 (1992) 232
Miller, M.K., see Jayaram 266 (1992) 310

Miller, M.K., see Jayaram 266 (1992) 316
Miller, M.K., see Hyde 266 (1992) 370
Miller, M.K., see Zhang 266 (1992) 433
Miller, M.K. and K.F. Russell, An APFIM investigation of a weathered region of the Santa Catharina meteorite 266 (1992) 441
Miller, M.K., A. Cerezo, M.G. Hetherington and J.M. Hyde, Estimation of composition amplitude: P_a and LBM versus V 266 (1992) 446
Miller, M.K. and R. Jayaram, Some factors affecting analysis in the atom probe 266 (1992) 458
Miller, M.K., see Cerezo 266 (1992) 471
Miller, M.K., see Cerezo 266 (1992) 481
Miller, M.K., Implementation of the optical atom probe 266 (1992) 494
Miskovsky, N.M., see Park 266 (1992) 265
Mittemeijer, E.J., see Sha 266 (1992) 416
Morikawa, H., F. Iwatsu and T. Terao, Vapor deposition of chromium on a tungsten tip 266 (1992) 237
Morikawa, H., see Terao 266 (1992) 244
Morikawa, H., see Yamamoto 266 (1992) 322
Moskovits, E.V. and V.S. Letokhov, Laser-stimulated field desorption of organic molecules in high electric fields 266 (1992) 81
Motai, K., see Hashizume 266 (1992) 282
Mousa, M.S., see Madenach 266 (1992) 56
Mousa, M.S., Field electron emission studies on zinc oxide coated tungsten microemitters 266 (1992) 110
Müller, K., see Friedl 266 (1992) 24

Nieuwenhuys, B.E., see Van Tol 266 (1992) 214
Nieuwenhuys, B.E., see Van Tol 266 (1992) 529
Nishikawa, O., M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204
Nishikawa, O., see Iwawaki 266 (1992) 285
Numakura, H., see Hono 266 (1992) 358

Olson, G.B., see Kinkus 266 (1992) 391

Park, S.H., N.M. Miskovsky, P.H. Cutler, E. Kazes and T.E. Sullivan, Laser-induced thermoelectric effects in an STM junction 266 (1992) 265
Ptitsin, V.E. and S.I. Shevchenko, On the mechanism of the LMIS emission 266 (1992) 191

Rasch, H., see Schmidt 266 (1992) 249
Rendulic, K.D., see Leisch 266 (1992) 517
Richardson, C.H., see Waugh 266 (1992) 501
Rolander, U., see Andrén 266 (1992) 76
Röllgen, F.W., see Lüttgens 266 (1992) 197
Röllgen, F.W., see Schmidt 266 (1992) 249
Russel, P.E., see Shedd 266 (1992) 259
Russell, K.F., see Miller 266 (1992) 232
Russell, K.F., see Miller 266 (1992) 441

Saburi, T., see Yamamoto 266 (1992) 289
Sakurai, T., see Hashizume 266 (1992) 282
Sakurai, T., see Hono 266 (1992) 350
Sakurai, T., see Hono 266 (1992) 358

Sakurai, T., see Hono 266 (1992) 385
Sakurai, T., see Hono 266 (1992) 506
Sano, N., see Hono 266 (1992) 350
Sarrau, J.M., see Deconihout 266 (1992) 523
Sasaki, S., see Yamamoto 266 (1992) 100
Schmidt, U., H. Rasch, Th. Fries, F.W. Röllgen and K. Wandelt, Characterization of STM W tips by FIM with an organic image gas 266 (1992) 249
Schütz, O., see Friedl 266 (1992) 24
Setna, R.P., see Cerezo 266 (1992) 481
Sha, W., G.D.W. Smith and A. Cerezo, Atom probe field-ion microscopy study of ageing behaviour of a model Fe–Ni–Co–Mo maraging steel 266 (1992) 378
Sha, W., L. Chang, G.D.W. Smith, L. Cheng and E.J. Mittemeijer, Some aspects of atom-probe analysis of Fe–C and Fe–N systems 266 (1992) 416
Shedd, G.M. and P.E. Russel, A simple wave function interference model for the electron-density superstructures observed during scanning tunneling microscopy of perturbed graphite surfaces 266 (1992) 259
Shevchenko, S.I., see Ptitsin 266 (1992) 191
Shilimanov, S.N., see Shkuratov 266 (1992) 224
Shkuratov, S.I., High temperature superconductors in strong electric fields 266 (1992) 88
Shkuratov, S.I., S.N. Ivanov and S.N. Shilimanov, Field electron microscopy and spectroscopy of HTSC perfect monocrystals 266 (1992) 224
Shrednik, V.N., see Butenko 266 (1992) 165
Smith, G.D.W., see Hyde 266 (1992) 370
Smith, G.D.W., see Sha 266 (1992) 378
Smith, G.D.W., see Sha 266 (1992) 416
Smith, G.D.W., see Hetherington 266 (1992) 463
Smith, G.D.W., see Cerezo 266 (1992) 471
Smith, G.D.W., see Cerezo 266 (1992) 481
Soffa, W.A., see Abe 266 (1992) 453
Šotola, J., W. Drachsel and J.H. Block, Observation of ring formation in the field electron emission image pattern of water covered field emitters 266 (1992) 70
Spindt, C.A., Microfabricated field-emission and field-ionization sources 266 (1992) 145
Stępień, Z.M., Field emission spectroscopy of potassium on single crystal planes of molybdenum 266 (1992) 107
Stęślicka, M., see Jurczyszyn 266 (1992) 141
Stiller, K., Intergranular precipitation in Ni–Cr–Fe alloys 266 (1992) 402
Sugiyama, A., see Yamamoto 266 (1992) 322
Sullivan, T.E., see Park 266 (1992) 265
Szabó, I.A., see Hono 266 (1992) 358

Tanaka, K., see Hashizume 266 (1992) 282
Taniguchi, M., see Hashizume 266 (1992) 282
Terao, T., see Morikawa 266 (1992) 237
Terao, T., F. Iwatsu and H. Morikawa, A field ion microscope study of the surface chemical reaction of tungsten with *n*-octanol under an applied positive voltage 266 (1992) 244
Tomitori, M., see Nishikawa 266 (1992) 204
Tomitori, M., see Iwawaki 266 (1992) 285
Tsukada, M., H. Kageshima, N. Isshiki and K. Kobayashi, Connected vacuum tail method and its application to scanning tunneling microscopy 266 (1992) 253

Uemori, R., see Yamamoto 266 (1992) 322
Uimanov, I.V., see Barengolts 266 (1992) 132
Underkoffler, J.S., see Cerezo 266 (1992) 471

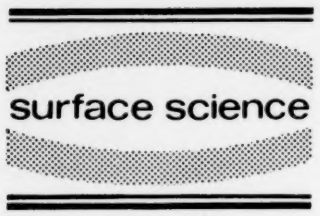
Valeyev, V.G., Tunneling in the representation of scattering states 266 (1992) 274
Van Tol, M.F.H., F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, The interaction of a W/Re alloy tip with oxygen: an application of the novel field electron/field ion microscope combination based on image processing 266 (1992) 214
Van Tol, M.F.H., F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, Design and performance of a novel field electron/field ion microscope combination based on image processing 266 (1992) 529
Vladimirov, V.V., V.E. Badan and V.N. Gorshkov, Microdroplet emission and instabilities in liquid-metal ion sources 266 (1992) 185
Vlasov, Yu.A., see Butenko 266 (1992) 165

Wahi, R.P., see Zhu 266 (1992) 337
Wandelt, K., see Schmidt 266 (1992) 249
Wanderka, N., see Zhu 266 (1992) 337
Wang, Q., see Hono 266 (1992) 385
Warren, P.J., C.R.M. Grovenor and J.S. Crompton, Field-ion microscope/atom-probe analysis of the effect of RRA heat treatment on the matrix strengthening precipitates in alloy Al-7150 266 (1992) 342
Warren, P.J., see Cerezo 266 (1992) 481
Watanabe, I., see Yamamoto 266 (1992) 100
Waugh, A.R., C.H. Richardson and R. Jenkins, APFIM 200 – A reflectron-based atom probe 266 (1992) 501
Williams, D.B., see Zhang 266 (1992) 433
Wollenberger, H., see Zhu 266 (1992) 337

Yaguchi, T., see Yamamoto 266 (1992) 100
Yamamoto, M., T. Fujisawa, T. Saburi, T. Kurumizawa and K. Kusao, Quantitative study of surface relief induced in the martensitic transformation of a Cu–Al–Ni shape memory alloy by scanning tunneling microscopy 266 (1992) 289
Yamamoto, M., A. Sugiyama, H. Matsushima, R. Uemori and H. Morikawa, Ultra-fine structure of a boron-doped Ni_4Mo alloy 266 (1992) 322
Yamamoto, S., I. Watanabe, S. Sasaki and T. Yaguchi, Absolute work function measurements with the retarding potential method utilizing a field emission electron source 266 (1992) 100

Zhang, J., M.K. Miller, D.B. Williams and J.I. Goldstein, An APFIM/AEM study of phase decompositions in Fe–Ni alloys at low temperatures 266 (1992) 433
Zhu, F., L. Jiao, N. Wanderka, R.P. Wahi and H. Wollenberger, FIM atom probe study of an Al_2O_3 dispersion strengthened copper alloy 266 (1992) 337

Surface Science 266 (1992) 552–562
North-Holland



Subject index

Alkali metals

T. Biernat, J. Bęben and R. Męclewski, Surface diffusion parameters for potassium and lithium on tungsten field emitter tip 266 (1992) 11

Z.M. Stępień, Field emission spectroscopy of potassium on single crystal planes of molybdenum 266 (1992) 107

N.N. Ljepojevic and R.G. Forbes, A comparison of the numerical and analytical treatments of a liquid-metal ion source 266 (1992) 176

Alloys

H.-O. Andrén and U. Rolander, Field dependence of hydrogen adsorption 266 (1992) 76

M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, The interaction of a W/Re alloy tip with oxygen: an application of the novel field electron/field ion microscope combination based on image processing 266 (1992) 214

M.K. Miller and K.F. Russell, Fractal analysis of field evaporation micrographs of Fe–Cr alloys 266 (1992) 232

M. Yamamoto, T. Fujisawa, T. Saburi, T. Kurumizawa and K. Kusao, Quantitative study of surface relief induced in the martensitic transformation of a Cu–Al–Ni shape memory alloy by scanning tunneling microscopy 266 (1992) 289

D. Blavette, The role of atom-probe techniques in the investigation of some selected matallurgical problems 266 (1992) 299

R. Jayaram and M.K. Miller, An APFIM analysis of grain boundaries and precipitation in boron-doped NiAl 266 (1992) 310

R. Jayaram and M.K. Miller, An APFIM/TEM study of crept model Ni–Mo–Ta–Al superalloys 266 (1992) 316

M. Yamamoto, A. Sugiyama, H. Matsushima, R. Uemori and H. Morikawa, Ultra-fine structure of a boron-doped Ni_4Mo alloy 266 (1992) 322

G.P. Geber and P. Haasen, High-resolution microscopy of the discontinuous precipitation 266 (1992) 328

T. Al-Kassab, A. Menand, S. Chambreland and P. Haasen, The early stages of decomposition of Al–Li alloys 266 (1992) 333

P.J. Warren, C.R.M. Grovenor and J.S. Crompton, Field-ion microscope/atom-probe analysis of the effect of RRA heat treatment on the matrix strengthening precipitates in alloy Al-7150 266 (1992) 342

K. Hono, N. Sano and T. Sakurai, Quantitative atom-probe analysis of some aluminum alloys 266 (1992) 350

K. Hono, H. Numakura, I.A. Szabó, A. Chiba and T. Sakurai, Determination of site preference of Cu and Ge in Ni_3Al 266 (1992) 358

J.M. Hyde, A. Cerezo, M.G. Hetherington, M.K. Miller and G.D.W. Smith, Three-dimensional characterization and modelling of spinodally decomposed iron-chromium alloys 266 (1992) 370

K. Hono, K. Hiraga, Q. Wang, A. Inoue and T. Sakurai, Microstructures of $Fe_{73.5}Si_{13.5}B_9Nb_3Cu_1$ nanocrystalline soft magnetic material investigated by APFIM and HRTEM 266 (1992) 385

0039-6028/92/$03.50 © 1992 – Elsevier Science Publishers B.V. All rights reserved

K. Stiller, Intergranular precipitation in Ni–Cr–Fe alloys 266 (1992) 402
J. Zhang, M.K. Miller, D.B. Williams and J.I. Goldstein, An APFIM/AEM study of phase decompositions in Fe–Ni alloys at low temperatures 266 (1992) 433
M.K. Miller, A. Cerezo, M.G. Hetherington and J.M. Hyde, Estimation of composition amplitude: P_a and LBM versus V 266 (1992) 446
T. Abe and W.A. Soffa, Time evolution of composition profiles in alloys 266 (1992) 453
M.G. Hetherington, A. Cerezo, J.M. Hyde and G.D.W. Smith, Structural analysis with the position sensitive atom probe 266 (1992) 463
A. Cerezo, M.G. Hetherington, J.M. Hyde, M.K. Miller, G.D.W. Smith and J.S. Underkoffler, Visualisation of three-dimensional microstructures 266 (1992) 471
A. Cerezo, J.M. Hyde, M.K. Miller, G. Beverini, R.P. Setna, P.J. Warren and G.D.W. Smith, New dimensions in atom-probe analysis 266 (1992) 481
M.K. Miller, Implementation of the optical atom probe 266 (1992) 494
K. Hono, T. Hashizume and T. Sakurai, The IMR atom probe 266 (1992) 506

Aluminium oxide
F. Zhu, L. Jiao, N. Wanderka, R.P. Wahi and H. Wollenberger, FIM atom probe study of an Al_2O_3 dispersion strengthened copper alloy 266 (1992) 337

Benzene
E.V. Moskovits and V.S. Letokhov, Laser-stimulated field desorption of organic molecules in high electric fields 266 (1992) 81

Boron
R. Jayaram and M.K. Miller, An APFIM analysis of grain boundaries and precipitation in boron-doped NiAl 266 (1992) 310
M. Yamamoto, A. Sugiyama, H. Matsushima, R. Uemori and H. Morikawa, Ultra-fine structure of a boron-doped Ni_4Mo alloy 266 (1992) 322

Cadmium sulphide
M.K. Miller and K.F. Russell, An APFIM investigation of a weathered region of the Santa Catharina meteorite 266 (1992) 441

Carbon
W. Sha, L. Chang, G.D.W. Smith, L. Cheng and E.J. Mittemeijer, Some aspects of atom-probe analysis of Fe–C and Fe–N systems 266 (1992) 416

Carbon monoxide
A. Gaussmann and N. Kruse, Field ion microscopy of the CO-induced structural changes of Pd and Pt single crystal planes 266 (1992) 46
N. Kruse and A. Gaussmann, Changes in the morphology of Rh field emitter tips due to the reaction with carbon monoxide 266 (1992) 51

Cathodes
S. Yamamoto, I. Watanabe, S. Sasaki and T. Yaguchi, Absolute work function measurements with the retarding potential method utilizing a field emission electron source 266 (1992) 100
S.A. Barengolts, M.Yu. Kreindel and E.A. Litvinov, Nonequilibrium effects in high current field emission 266 (1992) 126
S.A. Barengolts, E.A. Litvinov and I.V. Uimanov, Nonequilibrium effects in field electron emission from superconductors 266 (1992) 132

C.A. Spindt, Microfabricated field-emission and field-ionization sources 266 (1992) 145
R. Johnston and A.J. Miller, Field emission from silicon emitters 266 (1992) 155
D.V. Eremchenko and V.I. Makhov, Mechanisms responsible for instability of a field emission cathode surface morphology 266 (1992) 163

Ceramics
M. Leisch and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517

Chemisorption theory
P. Brągiel, Surface reactions in an external electrostatic field 266 (1992) 35

Chromium
H. Morikawa, F. Iwatsu and T. Terao, Vapor deposition of chromium on a tungsten tip 266 (1992) 237

Copper
F. Zhu, L. Jiao, N. Wanderka, R.P. Wahi and H. Wollenberger, FIM atom probe study of an Al_2O_3 dispersion strengthened copper alloy 266 (1992) 337
K. Hono, H. Numakura, I.A. Szabó, A. Chiba and T. Sakurai, Determination of site preference of Cu and Ge in Ni_3Al 266 (1992) 358

Electron microscopy
M. Drechsler, The thermal faceting of surfaces by low coverage adsorption 266 (1992) 1
J. Méndez, M. Luna and A.M. Baró, Preparation of STM W tips and characterization by FEM, TEM and SEM 266 (1992) 294
R. Jayaram and M.K. Miller, An APFIM/TEM study of crept model Ni–Mo–Ta–Al superalloys 266 (1992) 316
G.P. Geber and P. Haasen, High-resolution microscopy of the discontinuous precipitation 266 (1992) 328
T. Al-Kassab, A. Menand, S. Chambreland and P. Haasen, The early stages of decomposition of Al–Li alloys 266 (1992) 333
F. Zhu, L. Jiao, N. Wanderka, R.P. Wahi and H. Wollenberger, FIM atom probe study of an Al_2O_3 dispersion strengthened copper alloy 266 (1992) 337
K. Hono, N. Sano and T. Sakurai, Quantitative atom-probe analysis of some aluminum alloys 266 (1992) 350
K. Hono, K. Hiraga, Q. Wang, A. Inoue and T. Sakurai, Microstructures of $Fe_{73.5}Si_{13.5}B_9Nb_3Cu_1$ nanocrystalline soft magnetic material investigated by APFIM and HRTEM 266 (1992) 385
T.J. Kinkus and G.B. Olson, Microanalytical evaluation of a prototype stainless bearing steel 266 (1992) 391
K. Stiller, Intergranular precipitation in Ni–Cr–Fe alloys 266 (1992) 402
J. Zhang, M.K. Miller, D.B. Williams and J.I. Goldstein, An APFIM/AEM study of phase decompositions in Fe–Ni alloys at low temperatures 266 (1992) 433
M.K. Miller and K.F. Russell, An APFIM investigation of a weathered region of the Santa Catharina meteorite 266 (1992) 441
A. Cerezo, J.M. Hyde, M.K. Miller, G. Beverini, R.P. Setna, P.J. Warren and G.D.W. Smith, New dimensions in atom-probe analysis 266 (1992) 481
Q.-H. Hu and J.A. Alarco, Electropolishing of polycrystalline $YBa_2Cu_3O_{7-\sigma}$ to meet the need for sharp needle geometry 266 (1992) 538

Electron stimulated desorption
J. Dirks, W. Drachsel and J.H. Block, Electron stimulated field desorption of field adsorbed neon and helium from tungsten 266 (1992) 62

Faceting
M. Drechsler, The thermal faceting of surfaces by low coverage adsorption 266 (1992) 1

Field desorption
W. Drachsel, J. Dirks and J.H. Block, Simultaneous field desorption of ^{3}He and ^{4}He 266 (1992) 40
R.P. Madenach, G. Abend, M.S. Mousa, H.J. Kreuzer and J.H. Block, Influence of electrostatic fields on binding energy (NO on Rh) 266 (1992) 56
J. Dirks, W. Drachsel and J.H. Block, Electron stimulated field desorption of field adsorbed neon and helium from tungsten 266 (1992) 62
H.-O. Andrén and U. Rolander, Field dependence of hydrogen adsorption 266 (1992) 76
M. Leisch and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517

Field emission
T. Biernat, J. Bęben and R. Męclewski, Surface diffusion parameters for potassium and lithium on tungsten field emitter tip 266 (1992) 11
S. Yamamoto, I. Watanabe, S. Sasaki and T. Yaguchi, Absolute work function measurements with the retarding potential method utilizing a field emission electron source 266 (1992) 100
Z.M. Stępień, Field emission spectroscopy of potassium on single crystal planes of molybdenum 266 (1992) 107
R.Z. Bakhtizin and S.S. Ghots, Statistical model of semiconductor field emitter 266 (1992) 121
S.A. Barengolts, M.Yu. Kreindel and E.A. Litvinov, Nonequilibrium effects in high current field emission 266 (1992) 126
S.A. Barengolts, E.A. Litvinov and I.V. Uimanov, Nonequilibrium effects in field electron emission from superconductors 266 (1992) 132
C.A. Spindt, Microfabricated field-emission and field-ionization sources 266 (1992) 145
R. Johnston and A.J. Miller, Field emission from silicon emitters 266 (1992) 155
D.V. Eremchenko and V.I. Makhov, Mechanisms responsible for instability of a field emission cathode surface morphology 266 (1992) 163
R.G. Forbes and N.N. Ljepojevic, Liquid-metal ion source theory: electrohydrodynamics and emitter shape 266 (1992) 170
G.L.R. Mair and R.G. Forbes, An analytical calculation of LMIS cusp length 266 (1992) 180
S.I. Shkuratov, S.N. Ivanov and S.N. Shilimanov, Field electron microscopy and spectroscopy of HTSC perfect monocrystals 266 (1992) 224
S.H. Park, N.M. Miskovsky, P.H. Cutler, E. Kazes and T.E. Sullivan, Laser-induced thermoelectric effects in an STM junction 266 (1992) 265

Field emission microscopy
M. Drechsler, The thermal faceting of surfaces by low coverage adsorption 266 (1992) 1
Y.M. Gong, Surface self-diffusion studies on the W(112) plane by the field emission method 266 (1992) 30
J. Šotola, W. Drachsel and J.H. Block, Observation of ring formation in the field electron emission image pattern of water covered field emitters 266 (1992) 70
S.I. Shkuratov, High temperature superconductors in strong electric fields 266 (1992) 88
M.S. Mousa, Field electron emission studies on zinc oxide coated tungsten microemitters 266 (1992) 110

V.G. Butenko, Yu.A. Vlasov, O.L. Golubev and V.N. Shrednik, Point sources of electrons and ions using microprotrusion on the top of a tip 266 (1992) 165
O. Nishikawa, M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, The interaction of a W/Re alloy tip with oxygen: an application of the novel field electron/field ion microscope combination based on image processing 266 (1992) 214
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, Design and performance of a novel field electron/field ion microscope combination based on image processing 266 (1992) 529

Field evaporation

E.V. Moskovits and V.S. Letokhov, Laser-stimulated field desorption of organic molecules in high electric fields 266 (1992) 81
N.N. Ljepojevic and R.G. Forbes, A comparison of the numerical and analytical treatments of a liquid-metal ion source 266 (1992) 176
V.V. Vladimirov, V.E. Badan and V.N. Gorshkov, Microdroplet emission and instabilities in liquid-metal ion sources 266 (1992) 185
V.E. Ptitsin and S.I. Shevchenko, On the mechanism of the LMIS emission 266 (1992) 191
U. Lüttgens, Th. Dülcks and F.W. Röllgen, Field induced disintegration of glycerol solutions under vacuum and atmospheric pressure conditions studied by optical microscopy and mass spectrometry 266 (1992) 197
M.K. Miller and K.F. Russell, Fractal analysis of field evaporation micrographs of Fe–Cr alloys 266 (1992) 232
H. Morikawa, F. Iwatsu and T. Terao, Vapor deposition of chromium on a tungsten tip 266 (1992) 237
M.K. Miller and R. Jayaram, Some factors affecting analysis in the atom probe 266 (1992) 458
A. Cerezo, M.G. Hetherington, J.M. Hyde, M.K. Miller, G.D.W. Smith and J.S. Underkoffler, Visualisation of three-dimensional microstructures 266 (1992) 471
M.K. Miller, Implementation of the optical atom probe 266 (1992) 494

Field ion microscopy

M. Drechsler, The thermal faceting of surfaces by low coverage adsorption 266 (1992) 1
G.L. Kellogg, Surface diffusion of Pt adatoms on Ni surfaces 266 (1992) 18
A. Friedl, O. Schütz and K. Müller, Self-diffusion on iridium (100). A structure investigation by field ion microscopy 266 (1992) 24
A. Gaussmann and N. Kruse, Field ion microscopy of the CO-induced structural changes of Pd and Pt single crystal planes 266 (1992) 46
N. Kruse and A. Gaussmann, Changes in the morphology of Rh field emitter tips due to the reaction with carbon monoxide 266 (1992) 51
S.I. Shkuratov, High temperature superconductors in strong electric fields 266 (1992) 88
V.G. Butenko, Yu.A. Vlasov, O.L. Golubev and V.N. Shrednik, Point sources of electrons and ions using microprotrusion on the top of a tip 266 (1992) 165
O. Nishikawa, M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204
S.I. Shkuratov, S.N. Ivanov and S.N. Shilimanov, Field electron microscopy and spectroscopy of HTSC perfect monocrystals 266 (1992) 224
H. Morikawa, F. Iwatsu and T. Terao, Vapor deposition of chromium on a tungsten tip 266 (1992) 237
T. Terao, F. Iwatsu and H. Morikawa, A field ion microscope study of the surface chemical reaction of tungsten with *n*-octanol under an applied positive voltage 266 (1992) 244

U. Schmidt, H. Rasch, Th. Fries, F.W. Röllgen and K. Wandelt, Characterization of STM W tips by FIM with an organic image gas 266 (1992) 249
D. Blavette, The role of atom-probe techniques in the investigation of some selected matallurgical problems 266 (1992) 299
R. Jayaram and M.K. Miller, An APFIM analysis of grain boundaries and precipitation in boron-doped NiAl 266 (1992) 310
R. Jayaram and M.K. Miller, An APFIM/TEM study of crept model Ni–Mo–Ta–Al superalloys 266 (1992) 316
M. Yamamoto, A. Sugiyama, H. Matsushima, R. Uemori and H. Morikawa, Ultra-fine structure of a boron-doped Ni_4Mo alloy 266 (1992) 322
G.P. Geber and P. Haasen, High-resolution microscopy of the discontinuous precipitation 266 (1992) 328
F. Zhu, L. Jiao, N. Wanderka, R.P. Wahi and H. Wollenberger, FIM atom probe study of an Al_2O_3 dispersion strengthened copper alloy 266 (1992) 337
P.J. Warren, C.R.M. Grovenor and J.S. Crompton, Field-ion microscope/atom-probe analysis of the effect of RRA heat treatment on the matrix strengthening precipitates in alloy Al-7150 266 (1992) 342
K. Hono, N. Sano and T. Sakurai, Quantitative atom-probe analysis of some aluminum alloys 266 (1992) 350
K. Hono, H. Numakura, I.A. Szabó, A. Chiba and T. Sakurai, Determination of site preference of Cu and Ge in Ni_3Al 266 (1992) 358
F. Danoix, P. Auger and D. Blavette, An atom-probe investigation of some correlated phase transformations in Cr, Ni, Mo containing supersaturated ferrites 266 (1992) 364
W. Sha, G.D.W. Smith and A. Cerezo, Atom probe field-ion microscopy study of ageing behaviour of a model Fe–Ni–Co–Mo maraging steel 266 (1992) 378
K. Hono, K. Hiraga, Q. Wang, A. Inoue and T. Sakurai, Microstructures of $Fe_{73.5}Si_{13.5}B_9Nb_3Cu_1$ nanocrystalline soft magnetic material investigated by APFIM and HRTEM 266 (1992) 385
T.J. Kinkus and G.B. Olson, Microanalytical evaluation of a prototype stainless bearing steel 266 (1992) 391
L. Lundin and H.-O. Andrén, Atom-probe investigation of a creep resistant 12% chromium steel 266 (1992) 397
F. Canoix, B. Deconihout, A. Bostel and P. Auger, Some new aspects on microstructural and morphological evolution of thermally aged duplex stainless steels 266 (1992) 409
W. Sha, L. Chang, G.D.W. Smith, L. Cheng and E.J. Mittemeijer, Some aspects of atom-probe analysis of Fe–C and Fe–N systems 266 (1992) 416
F.A. Khalid and D.V. Edmonds, An atom-probe FIM study of interphase precipitation in a model alloy steel 266 (1992) 424
J. Zhang, M.K. Miller, D.B. Williams and J.I. Goldstein, An APFIM/AEM study of phase decompositions in Fe–Ni alloys at low temperatures 266 (1992) 433
M.K. Miller and K.F. Russell, An APFIM investigation of a weathered region of the Santa Catharina meteorite 266 (1992) 441
M.K. Miller, A. Cerezo, M.G. Hetherington and J.M. Hyde, Estimation of composition amplitude: P_a and LBM versus V 266 (1992) 446
T. Abe and W.A. Soffa, Time evolution of composition profiles in alloys 266 (1992) 453
M.K. Miller and R. Jayaram, Some factors affecting analysis in the atom probe 266 (1992) 458
A. Cerezo, M.G. Hetherington, J.M. Hyde, M.K. Miller, G.D.W. Smith and J.S. Underkoffler, Visualisation of three-dimensional microstructures 266 (1992) 471
A. Cerezo, J.M. Hyde, M.K. Miller, G. Beverini, R.P. Setna, P.J. Warren and G.D.W. Smith, New dimensions in atom-probe analysis 266 (1992) 481

M.K. Miller, Implementation of the optical atom probe 266 (1992) 494
A.R. Waugh, C.H. Richardson and R. Jenkins, APFIM 200 – A reflectron-based atom probe 266 (1992) 501
K. Hono, T. Hashizume and T. Sakurai, The IMR atom probe 266 (1992) 506
A.J. Melmed and P.P. Camus, Philosophy and design of a composition mapping atom probe (COMAP) 266 (1992) 513
B. Deconihout, A. Menand, M. Bouet and J.M. Sarrau, Performance of an energy compensated time-of-flight mass spectrometer 266 (1992) 523
Q.-H. Hu and J.A. Alarco, Electropolishing of polycrystalline $YBa_2Cu_3O_{7-\sigma}$ to meet the need for sharp needle geometry 266 (1992) 538

Field ionisation
W. Gründler, Time-dependent theory of charge transfer in the field ionization process at surfaces 266 (1992) 137
C.A. Spindt, Microfabricated field-emission and field-ionization sources 266 (1992) 145

Gallium
N.N. Ljepojevic and R.G. Forbes, A comparison of the numerical and analytical treatments of a liquid-metal ion source 266 (1992) 176

Germanium
R.Z. Bakhtizin and S.S. Ghots, Statistical model of semiconductor field emitter 266 (1992) 121
F. Iwawaki, M. Tomitori and O. Nishikawa, STM study of Ge overlayers on Si(001) 266 (1992) 285
K. Hono, H. Numakura, I.A. Szabó, A. Chiba and T. Sakurai, Determination of site preference of Cu and Ge in Ni_3Al 266 (1992) 358

Gold
N.N. Ljepojevic and R.G. Forbes, A comparison of the numerical and analytical treatments of a liquid-metal ion source 266 (1992) 176

Grain boundary
R. Jayaram and M.K. Miller, An APFIM analysis of grain boundaries and precipitation in boron-doped NiAl 266 (1992) 310
M. Yamamoto, A. Sugiyama, H. Matsushima, R. Uemori and H. Morikawa, Ultra-fine structure of a boron-doped Ni_4Mo alloy 266 (1992) 322
K. Stiller, Intergranular precipitation in Ni–Cr–Fe alloys 266 (1992) 402

Graphite
G.M. Shedd and P.E. Russel, A simple wave function interference model for the electron-density superstructures observed during scanning tunneling microscopy of perturbed graphite surfaces 266 (1992) 259

Hydrogen
H.-O. Andrén and U. Rolander, Field dependence of hydrogen adsorption 266 (1992) 76

Iridium
A. Friedl, O. Schütz and K. Müller, Self-diffusion on iridium (100). A structure investigation by field ion microscopy 266 (1992) 24
J. Šotola, W. Drachsel and J.H. Block, Observation of ring formation in the field electron emission image pattern of water covered field emitters 266 (1992) 70

Iron
W. Sha, L. Chang, G.D.W. Smith, L. Cheng and E.J. Mittemeijer, Some aspects of atom-probe analysis of Fe–C and Fe–N systems 266 (1992) 416

Magnetic structures
K. Hono, K. Hiraga, Q. Wang, A. Inoue and T. Sakurai, Microstructures of $Fe_{73.5}Si_{13.5}B_9Nb_3Cu_1$ nanocrystalline soft magnetic material investigated by APFIM and HRTEM 266 (1992) 385

Metals
L. Jurczyszyn and M. Stęślicka, Barrier-resonance states in an external electric field 266 (1992) 141

Molybdenum
P. Brągiel, Surface reactions in an external electrostatic field 266 (1992) 35
Z.M. Stępień, Field emission spectroscopy of potassium on single crystal planes of molybdenum 266 (1992) 107
O. Nishikawa, M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204

Nickel
G.L. Kellogg, Surface diffusion of Pt adatoms on Ni surfaces 266 (1992) 18

Nitric oxide
R.P. Madenach, G. Abend, M.S. Mousa, H.J. Kreuzer and J.H. Block, Influence of electrostatic fields on binding energy (NO on Rh) 266 (1992) 56

Nitrogen
P. Brągiel, Surface reactions in an external electrostatic field 266 (1992) 35
W. Sha, L. Chang, G.D.W. Smith, L. Cheng and E.J. Mittemeijer, Some aspects of atom-probe analysis of Fe–C and Fe–N systems 266 (1992) 416

Noble gases
W. Drachsel, J. Dirks and J.H. Block, Simultaneous field desorption of ^3He and ^4He 266 (1992) 40
J. Dirks, W. Drachsel and J.H. Block, Electron stimulated field desorption of field adsorbed neon and helium from tungsten 266 (1992) 62

Organic substances
E.V. Moskovits and V.S. Letokhov, Laser-stimulated field desorption of organic molecules in high electric fields 266 (1992) 81
U. Lüttgens, Th. Dülcks and F.W. Röllgen, Field induced disintegration of glycerol solutions under vacuum and atmospheric pressure conditions studied by optical microscopy and mass spectrometry 266 (1992) 197
T. Terao, F. Iwatsu and H. Morikawa, A field ion microscope study of the surface chemical reaction of tungsten with *n*-octanol under an applied positive voltage 266 (1992) 244

Oxygen
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, The interaction of a W/Re alloy tip with oxygen: an application of the novel field electron/field ion microscope combination based on image processing 266 (1992) 214

T. Hashizume, M. Taniguchi, K. Motai, H. Lu, K. Tanaka and T. Sakurai, Scanning tunneling microscopy of oxygen adsorption on the Ag(110) surface 266 (1992) 282

Palladium
A. Gaussmann and N. Kruse, Field ion microscopy of the CO-induced structural changes of Pd and Pt single crystal planes 266 (1992) 46

Platinum
G.L. Kellogg, Surface diffusion of Pt adatoms on Ni surfaces 266 (1992) 18
A. Gaussmann and N. Kruse, Field ion microscopy of the CO-induced structural changes of Pd and Pt single crystal planes 266 (1992) 46

Rhodium
N. Kruse and A. Gaussmann, Changes in the morphology of Rh field emitter tips due to the reaction with carbon monoxide 266 (1992) 51
R.P. Madenach, G. Abend, M.S. Mousa, H.J. Kreuzer and J.H. Block, Influence of electrostatic fields on binding energy (NO on Rh) 266 (1992) 56

Secondary ion mass spectroscopy
M. Leisch and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517

Silicon
R. Johnston and A.J. Miller, Field emission from silicon emitters 266 (1992) 155
V.G. Butenko, Yu.A. Vlasov, O.L. Golubev and V.N. Shrednik, Point sources of electrons and ions using microprotrusion on the top of a tip 266 (1992) 165
O. Nishikawa, M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204
F. Iwawaki, M. Tomitori and O. Nishikawa, STM study of Ge overlayers on Si(001) 266 (1992) 285

Silver
T. Hashizume, M. Taniguchi, K. Motai, H. Lu, K. Tanaka and T. Sakurai, Scanning tunneling microscopy of oxygen adsorption on the Ag(110) surface 266 (1992) 282

Steel
F. Danoix, P. Auger and D. Blavette, An atom-probe investigation of some correlated phase transformations in Cr, Ni, Mo containing supersaturated ferrites 266 (1992) 364
W. Sha, G.D.W. Smith and A. Cerezo, Atom probe field-ion microscopy study of ageing behaviour of a model Fe–Ni–Co–Mo maraging steel 266 (1992) 378
T.J. Kinkus and G.B. Olson, Microanalytical evaluation of a prototype stainless bearing steel 266 (1992) 391
L. Lundin and H.-O. Andrén, Atom-probe investigation of a creep resistant 12% chromium steel 266 (1992) 397
F. Canoix, B. Deconihout, A. Bostel and P. Auger, Some new aspects on microstructural and morphological evolution of thermally aged duplex stainless steels 266 (1992) 409
F.A. Khalid and D.V. Edmonds, An atom-probe FIM study of interphase precipitation in a model alloy steel 266 (1992) 424
M.G. Hetherington, A. Cerezo, J.M. Hyde and G.D.W. Smith, Structural analysis with the position sensitive atom probe 266 (1992) 463

A. Cerezo, M.G. Hetherington, J.M. Hyde, M.K. Miller, G.D.W. Smith and J.S. Underkoffler, Visualisation of three-dimensional microstructures 266 (1992) 471
A.R. Waugh, C.H. Richardson and R. Jenkins, APFIM 200 – A reflectron-based atom probe 266 (1992) 501
M. Leisch and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517
B. Deconihout, A. Menand, M. Bouet and J.M. Sarrau, Performance of an energy compensated time-of-flight mass spectrometer 266 (1992) 523

Superconductivity
S.I. Shkuratov, High temperature superconductors in strong electric fields 266 (1992) 88
S.A. Barengolts, E.A. Litvinov and I.V. Uimanov, Nonequilibrium effects in field electron emission from superconductors 266 (1992) 132
S.I. Shkuratov, S.N. Ivanov and S.N. Shilimanov, Field electron microscopy and spectroscopy of HTSC perfect monocrystals 266 (1992) 224
M. Leisch and K.D. Rendulic, A combined time-of-flight spectrometer using field desorption and ion impact sputtering 266 (1992) 517
Q.-H. Hu and J.A. Alarco, Electropolishing of polycrystalline $YBa_2Cu_3O_{7-\sigma}$ to meet the need for sharp needle geometry 266 (1992) 538

Surface diffusion
T. Biernat, J. Bęben and R. Męclewski, Surface diffusion parameters for potassium and lithium on tungsten field emitter tip 266 (1992) 11
G.L. Kellogg, Surface diffusion of Pt adatoms on Ni surfaces 266 (1992) 18
A. Friedl, O. Schütz and K. Müller, Self-diffusion on iridium (100). A structure investigation by field ion microscopy 266 (1992) 24
Y.M. Gong, Surface self-diffusion studies on the W(112) plane by the field emission method 266 (1992) 30

Surface potential
L. Jurczyszyn and M. Stęślicka, Barrier-resonance states in an external electric field 266 (1992) 141

Tungsten
T. Biernat, J. Bęben and R. Męclewski, Surface diffusion parameters for potassium and lithium on tungsten field emitter tip 266 (1992) 11
Y.M. Gong, Surface self-diffusion studies on the W(112) plane by the field emission method 266 (1992) 30
W. Drachsel, J. Dirks and J.H. Block, Simultaneous field desorption of ^3He and ^4He 266 (1992) 40
J. Dirks, W. Drachsel and J.H. Block, Electron stimulated field desorption of field adsorbed neon and helium from tungsten 266 (1992) 62
J. Šotola, W. Drachsel and J.H. Block, Observation of ring formation in the field electron emission image pattern of water covered field emitters 266 (1992) 70
E.V. Moskovits and V.S. Letokhov, Laser-stimulated field desorption of organic molecules in high electric fields 266 (1992) 81
M.S. Mousa, Field electron emission studies on zinc oxide coated tungsten microemitters 266 (1992) 110
V.G. Butenko, Yu.A. Vlasov, O.L. Golubev and V.N. Shrednik, Point sources of electrons and ions using microprotrusion on the top of a tip 266 (1992) 165
H. Morikawa, F. Iwatsu and T. Terao, Vapor deposition of chromium on a tungsten tip 266 (1992) 237

T. Terao, F. Iwatsu and H. Morikawa, A field ion microscope study of the surface chemical reaction of tungsten with *n*-octanol under an applied positive voltage 266 (1992) 244
U. Schmidt, H. Rasch, Th. Fries, F.W. Röllgen and K. Wandelt, Characterization of STM W tips by FIM with an organic image gas 266 (1992) 249
J. Méndez, M. Luna and A.M. Baró, Preparation of STM W tips and characterization by FEM, TEM and SEM 266 (1992) 294
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, Design and performance of a novel field electron/field ion microscope combination based on image processing 266 (1992) 529

Tunneling
O. Nishikawa, M. Tomitori and F. Iwawaki, High resolution tunneling microscopies: from FEM to STS 266 (1992) 204
U. Schmidt, H. Rasch, Th. Fries, F.W. Röllgen and K. Wandelt, Characterization of STM W tips by FIM with an organic image gas 266 (1992) 249
M. Tsukada, H. Kageshima, N. Isshiki and K. Kobayashi, Connected vacuum tail method and its application to scanning tunneling microscopy 266 (1992) 253
G.M. Shedd and P.E. Russel, A simple wave function interference model for the electron-density superstructures observed during scanning tunneling microscopy of perturbed graphite surfaces 266 (1992) 259
S.H. Park, N.M. Miskovsky, P.H. Cutler, E. Kazes and T.E. Sullivan, Laser-induced thermoelectric effects in an STM junction 266 (1992) 265
V.G. Valeyev, Tunneling in the representation of scattering states 266 (1992) 274
T. Hashizume, M. Taniguchi, K. Motai, H. Lu, K. Tanaka and T. Sakurai, Scanning tunneling microscopy of oxygen adsorption on the Ag(110) surface 266 (1992) 282
F. Iwawaki, M. Tomitori and O. Nishikawa, STM study of Ge overlayers on Si(001) 266 (1992) 285
M. Yamamoto, T. Fujisawa, T. Saburi, T. Kurumizawa and K. Kusao, Quantitative study of surface relief induced in the martensitic transformation of a Cu–Al–Ni shape memory alloy by scanning tunneling microscopy 266 (1992) 289
J. Méndez, M. Luna and A.M. Baró, Preparation of STM W tips and characterization by FEM, TEM and SEM 266 (1992) 294

Water
J. Šotola, W. Drachsel and J.H. Block, Observation of ring formation in the field electron emission image pattern of water covered field emitters 266 (1992) 70

Work function
S. Yamamoto, I. Watanabe, S. Sasaki and T. Yaguchi, Absolute work function measurements with the retarding potential method utilizing a field emission electron source 266 (1992) 100
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, The interaction of a W/Re alloy tip with oxygen: an application of the novel field electron/field ion microscope combination based on image processing 266 (1992) 214
S.I. Shkuratov, S.N. Ivanov and S.N. Shilimanov, Field electron microscopy and spectroscopy of HTSC perfect monocrystals 266 (1992) 224
M.F.H. van Tol, F.A. Hondsmerk, J.W. Bakker and B.E. Nieuwenhuys, Design and performance of a novel field electron/field ion microscope combination based on image processing 266 (1992) 529

Zinc oxide
M.S. Mousa, Field electron emission studies on zinc oxide coated tungsten microemitters 266 (1992) 110